

AbstractMethods for Producing Members of
Specific Binding Pairs

A member of a specific binding pair (sbp) is
5 identified by expressing DNA encoding a genetically
diverse population of such sbp members in recombinant
host cells in which the sbp members are displayed in
functional form at the surface of a secreted
recombinant genetic display package (rgdp) containing
10 DNA encoding the sbp member or a polypeptide
component thereof, by virtue of the sbp member or a
polypeptide component thereof being expressed as a
fusion with a capsid component of the rgdp. The
displayed sbps may be selected by affinity with a
15 complementary sbp member, and the DNA recovered from
selected rgdps for expression of the selected sbp
members. Antibody sbp members may be thus obtained,
with the different chains thereof expressed, one
fused to the capsid component and the other in free
20 form for association with the fusion partner
polypeptide. A phagemid may be used as an expression
vector, with said capsid fusion helping to package
the phagemid DNA. Using this method libraries of DNA
encoding respective chains of such multimeric sbp
25 members may be combined, thereby obtaining a much
greater genetic diversity in the sbp members than
could easily be obtained by conventional methods.